

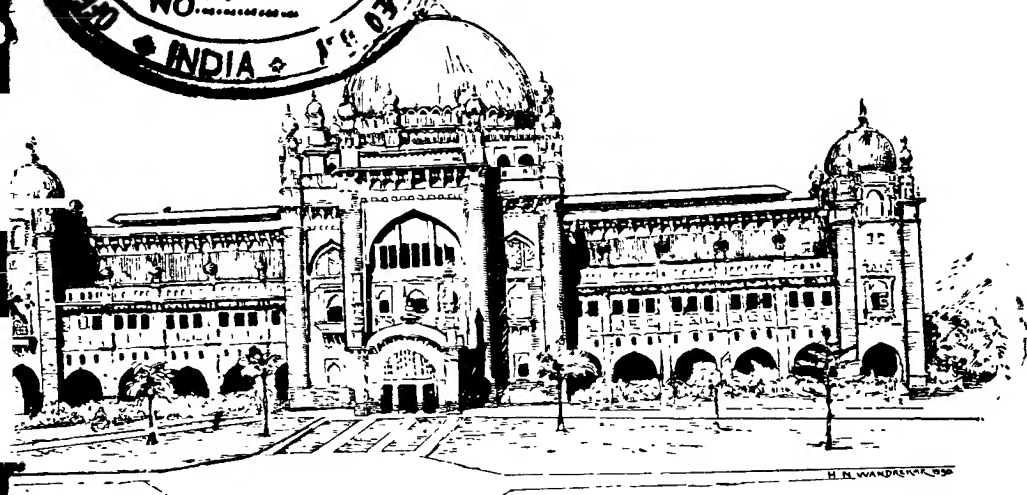
GOVERNMENT OF INDIA
ARCHÆOLOGICAL SURVEY OF INDIA
ARCHÆOLOGICAL
LIBRARY

ACCESSION NO. 22288

CALL No. 069.09(5431)/P.W.M.

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(Published by the Trustees)

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PRINCE OF WALES MUSEUM OF WESTERN INDIA.

The Museum is open to the public from 10 a.m. to 5-30 p.m. or 6 p.m. on all days of the week except Monday. It is however kept open on such Mondays as are gazetted public holidays. It is closed on Good Friday and Christmas Day. Admission is free on all days except Wednesday, when a fee of 2 annas per person is charged.

EXHIBITS IN THE PUBLIC GALLERIES.

Ground floor	.. {	Central Hall	.. Statuary and draperies etc.
		East Wing	.. Brahmanical gallery and memorial stones.
		West Wing	.. Mammal and Bird galleries.
		North Side	.. Jain and Prehistoric gallery.
Intermediate floor..	.. {	Central	.. Invertebrate and economic botanical gallery.
		East	.. Buddhistic and epigraphical galleries and coin room.
		West	.. Reptiles, amphibia and fish gallery.
		North	.. Miscellaneous antiquities gallery.
Top floor	.. {	Central	.. Arts-Crafts specimens, Pottery and manuscripts.
		East	.. Western and Indian paintings.
		West	.. Western and Indian paintings, draperies etc.
		North	.. Jade, China, Tibetan exhibits, Venetian glass, lacquer, ivory, bidri, brass etc.
		South	.. Arms and armour (and minerals).

CONTENTS

	PAGE
GENERAL REMARKS	1
THE ART SECTION	10
THE ARCHÆOLOGICAL SECTION	17
THE NATURAL HISTORY SECTION	28

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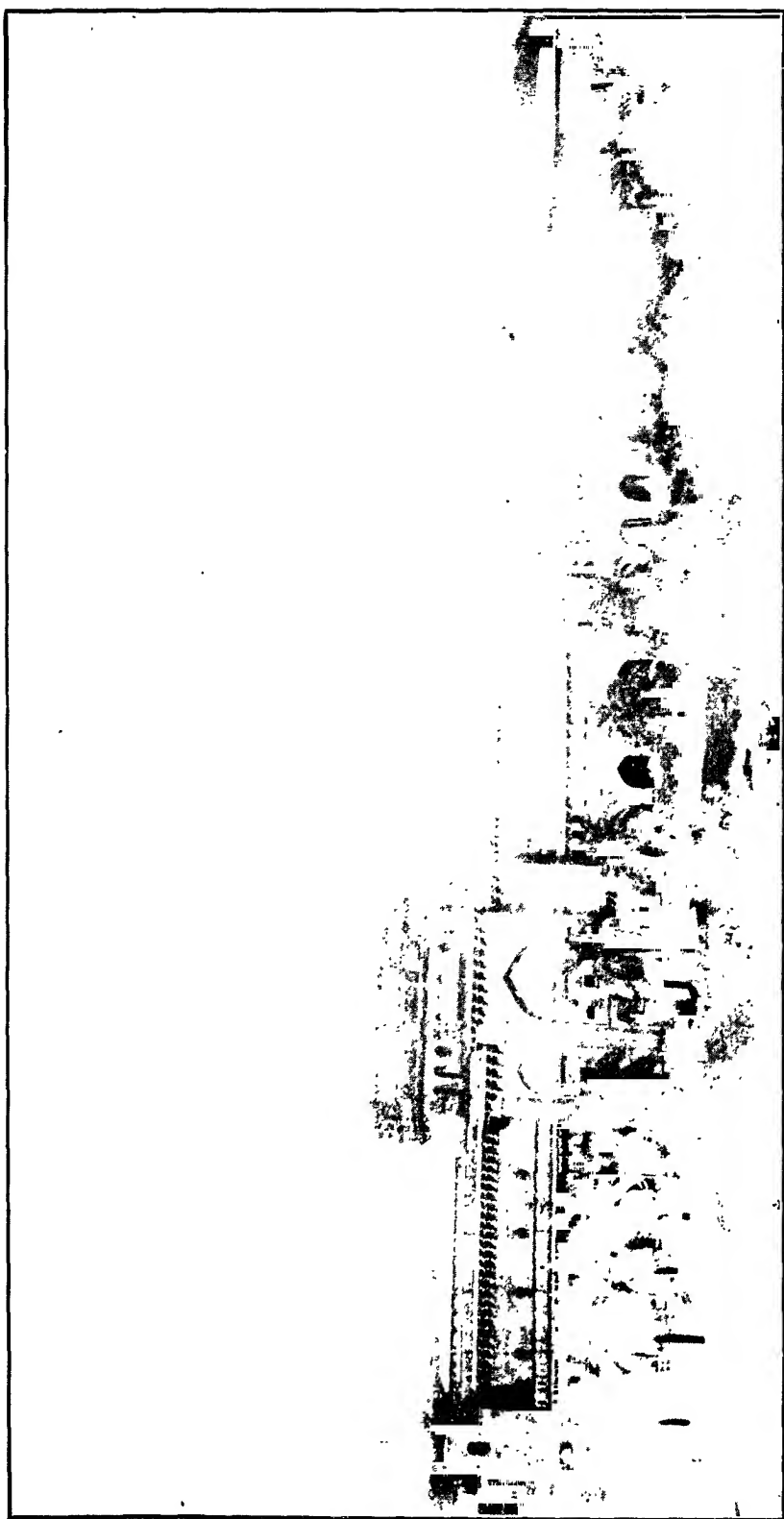


Photo showing the Extension to the Prince of Wales Museum building.

GENERAL

As in the previous years, the number of visitors averaged over 2,000 a day on the free days according to a census taken for a week during the year under review.

The construction of the extension to the Museum building is nearing completion. The extension was expected to be completed early in 1935, but owing to necessary alterations and additions which are being carried out, it will not be ready for occupation till late in the year. A considerable amount of spade work will have to be done in connection with the lay-out of the exhibition galleries before the extension is opened to the public.

As the Curators of the Sections have been making preliminary plans for displaying exhibits in the new galleries, major improvements to the existing collections have not been undertaken by them. Nevertheless several noteworthy additions have been made to the collections in the various Sections.

Some members of the staff of the Natural History Section were deputed on several important surveys in India and Burma, with a view to collecting mammals, birds, reptiles, amphibians and fish. The Museum collection has benefited considerably by these surveys.

It is worthy of note that Nawab Sir Akbar Hydar Jung has very generously presented his interesting collection of copies of the Ajanta frescoes to the Museum, which the Trustees have gratefully accepted.

The iconographical Section has been considerably enriched by the addition of no less than 60 icons of Vaishnavite, S'aivite and Sakta schools.

Important catalogue and labelling works were completed during the year under report. The Persian and Arabic inscriptions on the arms and armour of the Sir Ratan Tata Art collection were translated and a catalogue of the inscriptions printed. An exhaustive catalogue of the coins of Sultans of Gujerat in the collections of this and other Museums has been prepared and is being printed. This will be the first printed catalogue of its kind and its publication, it is believed, will bring to light many new coins of the rulers of this dynasty.

The usual work of classifying, arranging, labelling exhibits and other activities were proceeded with during the year, and various papers and articles on interesting subjects were also published by the staff of the different Sections of the Museum.

The progress of the working of the main Sections is detailed in the sub-joined Reports of the Curators.

An abstract of accounts of Receipts and Payments for the year appears in Appendix I, and the names of the Trustees and the members of the staff are shown in Appendix II.

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APPENDIX I (b).
BUILDING FUND.

Abstract of Income and Expenditure for the Year 1934-35.

Income.		Expenditure.	
	Rs. a. p.		Rs. a. p.
To Opening Balance	1,713 2 6	By Maintenance—Museum Buildings.	635 0 6
	Rs. a. p.	„ Allowance for Supervision—Museum Buildings.	180 0 0
Imperial Bank	135 11 6	„ Maintenance—Electric Installation.	1,044 0 0
Chartered Bank	1,477 7 0	„ Fire Hydrants, Hose Pipes, etc.	91 2 0
Permanent Advance.	100 0 0	„ Insurance Charges—Secretary's and Servants' Quarters.	33 0 0
	1,713 2 6	„ Unforeseen Expenses	100 0 0
To Interest on Securities	6,598 10 0	„ Repainting of the doors, etc., of the Museum Buildings.	2,355 12 0
„ Interest on Current Account	7 0 0	„ Sale of Temporary sheds—refund of Deposit.	300 0 0
„ Maintenance—Electric Installation, refund from Electrical Engineer.	60 13 0	„ Laboratory and Dark Room Construction of	540 10 0
„ Maintenance—Electric Installation, recoveries from N. H. Section.	208 13 0	„ Purchase of Securities (face value Rs. 1,000).	904 13 6
			6,184 6 0
		By Closing Balance—	2,404 0 6
			Rs. a. p.
		Imperial Bank	75 7 6
		Chartered Bank	2,228 9 0
		Permanent Advance.	100 0 0
			2,404 0 6
Total	8,588 6 6	Total	8,588 6 6
Amount of Securities held Government Promissory Notes (face value) Rs. 1,68,200.			

J. F. JACOBS,

Secretary,

Prince of Wales Museum of Western India.

APPENDIX I (c).

Abstract of Income and Expenditure for the year 1934-35.

Income.			Expenditure.		
RESERVE FUND					
	Rs.	a. p.		Rs.	a. p.
To Opening Balance ..	4,010	11 2	By Transfer to Current Fund.	6,000	0 0
	Rs. a. p.		„ Purchase of Securities (face value Rs. 7,500).	6,834	10 7
Imperial Bank .	827	8 0			
Chartered Bank	3,183	3 2		12,834	10 7
	4,010	11 2	By Closing Balance ..	9,942	11 7
				Rs. a. p.	
To Interest on Securities ..	18,555	4 0	Imperial Bank ..	719	8 0
„ Interest on Current Account	11	7 0	Chartered Bank	7,023	3 7
			<i>Fixed Deposit 8000 --</i>		
Total ..	22,577	6 2		9,942	11 7
Amount of Securities held			Total ..	22,577	6 2
Government Promissory					
Notes (face value)					
Rs. 4,72,500.					

EXHIBITS FUND					
	Rs.	a. p.		Rs.	a. p.
To Opening Balance ..	1,882	3 0	By Purchase of Exhibits, Arch. Section.	2,592	8 0
	Rs. a. p.		„ Purchase of Exhibits, Art Section.	1,976	0 6
Imperial Bank .	143	2 0	„ Purchase of Securities (face value Rs. 500).	456	4 10
Chartered Bank	1,739	1 0		5,024	12 10
	1,882	3 0	By Closing Balance ..	2,526	11 2
				Rs. a. p.	
To Interest on Securities ..	5,650	14 0	Imperial Bank ..	107	14 0
„ Interest on Current Account	18	7 0	Chartered Bank	2,418	13 2
Total ..	7,551	8 0		2,526	11 2
Amount of Securities held			Total ..	7,551	8 0
Government Promissory					
Notes (face value)					
Rs. 1,42,700.					

Income.		Expenditure.	
BUILDING EXTENSION FUND.			
	Rs. a. p.		Rs. a. p.
To Opening Balance	.. 2,99,399 10 4	By Building Extension	.. 1,47,257 10 0
		„ Closing Balance	.. 1,59,980 14 8
	Rs. a. p.		Rs. a. p.
Chartered Bank	2,399 10 4	Chartered Bank	38,480 14 8
Fixed Deposits :—		Fixed Deposits—	
Bank of India	60,000 0 0	Central Bank	121,500 0 0
Central Bank	2,37,000 0 0		
	2,69,399 10 4		
To Interest on Fixed Deposits	7,671 9 4		159,980 14 8
„ Interest on Current Account	167 5 0		
Total	.. 3,07,238 8 8	Total	.. 3,07,238 8 8

J. F. JACOBS.

Secretary,
Prince of Wales Museum of Western India.

APPENDIX I (d).

PROVIDENT FUND.

Abstract of Receipts and Payments for the year 1934-35.

Receipts.			Payments.		
	Rs.	a. p.		Rs.	a. p.
To Opening Balance—	4,398	9 8	By payments to Subscribers ..	3,206	15 0
			„ Purchase of Securities (face value Rs. 7,200).	6,656	9 0
Chartered Bank	4,298	9 8	„ Transfer to Current Fund	138	15 0
Permanent Advance.	100	0 0			
				10,002	7 0
	4,398	9 8	By Closing Balance—	4,388	6 8
To Subscribers' contributions	3,620	14 0			
„ Board's contributions	3,602	11 0			
„ Loans repaid by Subscribers	1,094	8 0	Chartered Bank	4,288	6 8
„ Interest on Securities	1,668	15 0	Permanent Advance.	100	0 0
„ Interest on Current Account	5	4 0			
				4,388	6 8
Total	14,390	13 8	Total	14,390	13 8

Rs.

Amount of Securities held G. P. Notes .. 45,700 (face value).

Five-year Postal Cash Certificates .. 8,600 (cash value).

54,300

J. F. JACOBS,

Secretary,

Prince of Wales Museum of Western India.

APPENDIX I (c).

NATURAL HISTORY SECTION, PRINCE OF WALES' MUSEUM.

*Statement of Accounts of the Natural History Section, Prince of Wales' Museum of Western India,
from 1st April 1934 to 31st March 1935.*

Particulars.	Receipts, 1934-1935.			Particulars.	Payments, 1934-1935.		
	Rs.	a.	p.		Rs.	a.	p.
Bank Balance 1st April 1934 ..	2,593	4	11	Establishment ..	22,625	3	0
Permanent Advance ..	100	0	0	Boards Contribution to	1,822	8	0
Government Grant ..	28,950	0	0	Provident Fund.			
Interest on Current Account etc.	48	12	0	Contingent Charges ..	808	3	6
An allowance on account of	180	0	0	Stationery ..	71	13	0
Forest Section.				Post and Telegrams ..	16	13	9
Sales of Snake Pamphlets ..	4	0	0	Electric Energy and repairs ..	801	14	0
Sales of Museum Guide Books	18	0	0	Mounting Specimens ..	603	9	6
				Rent ..	720	0	0
				Maintenance ..	301	1	0
				Labels, Catalogue etc. ..	322	6	0
				Purchase of Specimens ..	2	6	0
				Additions to Cases, Show Cases	2,795	6	8
				and Glass and alterations to			
				Cases.			
					30,883	4	5
				Closing balance on 31st March	910	12	6
				1935.			
				Permanent Advance ..	100	0	0
Total ..	31,894	0	11	Total ..	31,894	0	11

J. G. RIDLAND,

Chairman,

Natural History Section,
Prince of Wales Museum.

Bombay, 9th April 1935.

APPENDIX I (f).

NATURAL HISTORY SECTION, PRINCE OF WALES' MUSEUM—PROVIDENT FUND.

Abstract of Receipts and Payments for year 1934-35.

Particulars.	Receipts, 1934-35.	Particulars.	Payments, 1934-35.
	Rs. a. p.		Rs. a. p.
Opening balance ..	2,214 15 8	Loan to Staff ..	570 0 0
	Rs. a. p.	Purchase of Securities + per cent. Loan 1936-70—Rs. 2,000.	2,066 3 9
Staffs Contribution to Provident Fund.	1,822 8 0	Insurance Premiums.	1,096 13 0
Boards Contribution to Provident Fund.	1,822 8 0		3,727 9 9
Refund of Loan	790 0 0	Bank balance on 31st March 1935.	4,568 5 11
Interest collected during the year.	1,585 7 0		
Total ..	8,235 6 8	Total ..	8,235 6 8

	Rs. a. p.
3½ Per cent. Promissory Notes ..	26,700 0 0
Loan 1945-55 at 5 per cent.	500 0 0
Loan 1939-44 at 5 per cent.	2,500 0 0
Loan 1938-40 at 5½ per cent.	3,000 0 0
Development Loan at 6½ per cent.	4,500 0 0
Loan 1947-50 at 3½ per cent.	2,000 0 0
	39,200 0 0

J. G. RIDLAND,

Chairman,

Natural History Section

Prince of Wales Museum.

Bombay, 9th April 1935.

APPENDIX II.

BOARD OF TRUSTEES FROM 1ST APRIL 1934 TO 31ST MARCH 1935.

(The names of the electing body etc. is given in brackets in the case of each Trustee).

- The Honourable Sir PHIROZE C. SETHNA, Kt., O.B.E. (Co-opted by the Board), Chairman, elected.
 Mr. P. B. ADVANI, M.Sc., M.I.E., Director of Industries (*ex-officio*).
 Mr. M. E. HASKELL, I.E., Ag. Director of Industries, from 10th May to 20th November 1934, in place of Mr. Advani on leave (*ex-officio*).
 Mr. E. W. PERRY, C.I.E., I.C.S., Collector of Bombay (*ex-officio*), till 17th April 1934.
 Mr. W. DILLON, I.C.S., Collector of Bombay (*ex-officio*), from 18th April 1934 to 8th March 1935.
 Mr. H. T. SORLEY, I.C.S., Collector of Bombay (*ex-officio*), from 9th March 1935.
 Capt. W. E. C. SOLOMON, K-i-H., I.E.S., R.B.C., J.P., Director, Sir J. J. School of Art (*ex-officio*).
 Mr. H. F. KING, F.R.I.B.A., Ag. Director, Sir J. J. School of Art from 13th June 1934 to 3rd January 1935, in place of Capt. Solomon on leave (*ex-officio*).
 The Superintendent, Archaeological Survey, W. C., Poona (*ex-officio*).
 Mr. B. G. PARELKAR (Municipal Corporation).
 Khan Bahadur M. I. CURTAY, J.P., (Municipal Corporation), till 27th December 1934.
 Prof. V. G. RAO, B.A., LL.B. (Cantab.), Bar-at-Law, O.A., (Municipal Corporation), from 28th December 1934.
 Sir COWASJI JEhangir, Esq., K.C.I.E., O.B.E., M.L.A. (nominated by Government)
 Dr. M. B. REHMAN, M.A., Ph.D., Principal, Ismail College, Andher, (nominated by Government).
 Dr. T. S. WHEELER, F.I.C., Ph.D., F.R.C.S.I., Director, Royal Institute of Science (nominated by Government).
 Mr. J. G. RIDLAND, (Bombay Natural History Society), till 27th December and co-opted by the Board, from 28th December 1934
 Mr. P. M. D. SANDERSON, F.Z.S., (Bombay Natural History Society), from 28th December 1934.
 Mr. S. H. PRATER, C.M.Z.S., M.L.C., (Bombay Natural History Society).
 Dr. G. S. GILBERT, M.A., Ph.D., (Bombay Branch Royal Asiatic Society).
 Mr. S. D. SAKLATVALA (Tata Trustees)
 Dr. N. A. F. MOOS, D.Sc., L.C.E., F.R.S.E. (University of Bombay)
 Mr. G. V. ACHARYA, B.A. M.R.A.S., (Co-opted by the Board).

NATURAL HISTORY SECTION COMMITTEE OF THE PRINCE OF WALES, MUSEUM.

- Mr. J. G. RIDLAND (Chairman) till 27th December 1934.
 Mr. P. M. D. SANDERSON, F.Z.S. (Chairman from 28th December 1934).
 Dr. N. A. F. MOOS, D.Sc., L.C.E., F.R.S.E.
 Mr. S. H. PRATER, C.M.Z.S., M.L.C.

STAFF.

- Mr. J. F. JACOBS, B.Sc., Secretary.
 Mr. G. V. ACHARYA, B.A., M.R.A.S., Curator, Archaeological Section.
 Mr. R. G. GYANI, M.A., M.R.A.S., Assistant Curator, Archaeological Section.
 Capt. W. E. G. SOLOMON, K-i-H., I.E.S., R.B.C., J.P., Curator, Art Section.
 Mr. E. D'LIMA, Assistant Curator, Art Section.
 Mr. S. H. PRATER, C.M.Z.S., M.L.C., Curator, Bombay Natural History Society ; Curator, Natural History Section.
 Mr. CHARLES McCANON (Assistant Curator, Bombay Natural History Society). Assistant Curator, Natural History Section.
 Mr. V. S. LA PERSONNE (Assistant Curator, Bombay Natural History Society) : Assistant Curator, Natural History Section.

REPORT OF THE ART SECTION FOR THE YEAR APRIL 1934 TO MARCH 1935.

CONSTRUCTION OF THE NEW MUSEUM WING.

The construction of the new wing of the Museum was taken in hand during the year, and its completion is being looked forward to, as the new Galleries will afford a much needed relief to the Art Section which at present is very much over-crowded, and will enable the fine bequest of the late Sir Dorab Tata's exhibits to be suitably displayed to the public.

PERSONNEL.

The Curator proceeded on seven months' leave to Europe, and was also deputed by the Government of Bombay to supervise the Section of the Bombay Presidency's exhibits at the Exhibition of Modern Indian Art in London which was held in December 1934. He resumed charge of the Section on 4th January 1935.

During the absence of the Curator on leave, the Assistant Curator, Mr. E. D'Lima, was in charge of the Art Section.

The Gallery Assistant and Clerk availed themselves of one month's leave.

CURATOR'S REPORT ON HIS TOUR OF EUROPEAN MUSEUMS.

As the state of some of the old Western paintings in the Museum has been causing some anxiety, the Curator, Mr. Gladstone Solomon, was asked, while on leave in Europe, to enquire into the latest methods of preservation and protection of paintings and Museum specimens in use in the European Museums. This was with special reference to the question of the prevention of the expansion and contraction of oil paintings owing to the deteriorating effects of climate and variations in temperature, and humidity.

Some very useful and valuable information on this subject was collected, thanks to the cordial assistance and advice of several experts whom Mr. Solomon consulted on the subject, and who placed all the necessary information, with copious notes, at his disposal, for which the Curator is extremely obliged to them.

The Curator is particularly indebted to Professor Constable, Director of the Courtauld Institute of Art London, and Mr. J. MacIntyre, Senior Engineer, H. M.'s Office of Works, Westminster, who also kindly referred him to several other experts in France and America.



No. 81.—Princess Jani Begum.

[To face page 11]

The results of these investigations confirmed the interesting fact that the deterioration of our paintings is caused not so much by the fluctuations in temperature as by the changes in relative humidity in the atmosphere.

The Curator has submitted a report of his inquiries and has suggested some preliminary means for counteracting the deleterious influences at work.

CLEANING OF SHOW CASES AND EXHIBITS, AIRING, DISINFECTING, AND PRESERVATION OF PICTURES, FABRICS, ETC.

The usual work of cleaning the show cases and exhibits, airing and disinfecting the fabrics, and preservation of pictures and Manuscripts was carried out regularly every month.

During the year the total number of cases of all exhibits cleaned was about 400, while about 600 draperies, carpets, etc., were aired and disinfected; 400 pieces from the Armoury were cleaned of their rust stains and coated with vaseline.

The frames and backs of all the pictures were cleaned and sprayed with chemicals as a protection against destructive insects. The usual chemical preservatives were replenished in the cases from time to time after cleaning operations. Several pictures had to be taken down from damp walls, and others were opened and cleaned of damp and mildew owing to the effects of the monsoon.

SHIFTING OF PICTURES AND EXHIBITS.

The general painting of the Museum premises necessitated the temporary closing of the Art galleries to the public. The lowering of the pictures from the walls and the temporary removal of exhibits required the greatest care in handling, and fortunately no damage was done to any of the exhibits and pictures.

The taking down of the pictures, gave the staff the opportunity to examine several of the exhibits more closely. Though nothing seriously amiss was found, some of the frames were opened, cleaned, and treated with chemicals. Some were also rebacked with American cloth, and painted on the backs to prevent the attacks of white ants.

PHOTOGRAPHS AND PUBLICITY.

Complete lists of all the half-tone blocks, and of all negatives of Art Section exhibits were compiled for the office records.

The gold, silver, and jade exhibits were photographed in their cases, as also all newly acquired pictures, for purposes of record.

A thousand picture postcards of the Ajanta picture "A Prince and Princess" were reprinted, for sale at the Museum counter, the old reproductions being nearly sold out.

Requests for photographs of Museum exhibits and for permission to reproduce them in publications, were many. The applicants were granted permission on the usual conditions.

LABELS AND CATALOGUE.

The translation of the Persian and Arabic inscriptions on the arms and armour of the Sir Ratan Tata Art collection which was taken up last year by Mr. R. G. Gyani, Assistant Curator of the Archæological Section, was completed during the year; the catalogue of these inscriptions was also completed and printed. The Art Section acknowledges with thanks Mr. Gyani's assistance in carrying out this work.

A list of the 550 Mogul and other paintings in the Indian collections of pictures was prepared, and several pictures without names were given descriptive titles.

Seventy new descriptive title labels were made for the Indian pictures. Catalogue slips of the bronzes, ivories, miniatures, and manuscripts were also printed.

A further group of 365 images were identified and catalogued in addition to the 240 images identified and catalogued last year. This completes the cataloguing work of the 605 Indian images of the Sir Ratan Tata Collection. 120 specific labels were printed in English, Marathi, and Gujerati, for the exhibits of Indian deities.

Fifteen wooden gilt labels were made for the Ajanta pictures of the Sir Akber Hydari Collection.

The work of preparing the draft catalogue of the Sir Dorab Tata Collection was taken in hand. About 500 exhibits were provisionally numbered, and the ground-work of the catalogue was prepared. Through the timely help of a Japanese tourist, many Japanese and Chinese inscriptions on porcelain and other exhibits were deciphered.

RENOVATION, ETC., OF PICTURES AND REPAIRS TO EXHIBITS.

Some of the pictures required attention and were repaired by the Curator. A number of pictures were rebacked with American cloth and painted. Two musical instruments of the School of Art Collection were also repaired.

A new gilt frame was provided by Mr. P. D. Pudumjee, for his loan picture, "The Children of Charles I" by Govart Flinck.

ARTICLES ACCEPTED.

A quad of steel type was presented by Mr. S. Jepson, Editor of the "Illustrated Weekly of India" having the whole of the "Lord's Prayer" engraved on its surface, one-sixth of an inch in area.

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No. 347. Shah Jahan.

[To face page 13]

SIR AKBAR HYDARI LOAN COLLECTION.

Sir Akbar Hydari very kindly consented to renew the Agreements regarding his collection of Indian pictures lent to the Museum, for a further period of three years, and has very generously presented his collection of copies of the Ajanta frescoes to the Museum, a gift which the Trustees have gratefully accepted.

Sir Akbar Hydari twice visited the Museum, inspected his pictures in the Art Section, and expressed his satisfaction with their preservation and arrangement.

REGISTERING OF EXHIBITS.

The registering of the exhibits, as required by the Auditors, was completed, only the Sir Dorab Tata collection remaining to be catalogued and registered. The exhibits were, however, checked with the lists forwarded by the Secretary to the Trustees of the Sir Dorab Tata Estate, and found to be in order.

All the exhibits in the show cases were also carefully checked while being registered.

LOAN OF ART SECTION PICTURES TO THE EXHIBITION OF MODERN INDIAN ART IN LONDON.

The Curator selected twelve pictures from among the paintings in the Art Section by Indian Artists, and recommended to the Chairman that these should be lent to the Regional Committee of Western India for exhibiting at the London Exhibition. The Trustees allowed these pictures to be sent on loan—the cost of insurance, carriage, etc. being borne by the Exhibition Committee. The following ten pictures were handed over to Mr. K. H. Vakil, Honorary Secretary to the Regional Committee of Western India and returned by him after the Exhibition in good order :—

- No. 166—Framji Nusserwanji Patel (1802-1892).
- „ 170—Mahomedan reading the Koran—Pestonji Bomanji.
- „ 171—Through the Woods—G. J. Bahadurji.
- „ 184—A Wayside Camp—A. X. Trindade.
- „ 192—Meditation—S. N. Gorakshkar.
- „ 193—Triumph of Devotion—G. H. Nagarkar.
- „ 234—Ganga Mata, Benares—L. N. Taskar.
- „ 240—Fantasy—R. G. Chimulkar.
- „ 246—Shakuntala—R. D. Dhopeshwarkar.
- „ 276—The Fugitives—P. D. Parasnis.

VISITORS.

Justice Barlee and Khan Bahadur Mohammad Sana Ullah, Archæological Chemist to the Government of India, were shown round the Art Section.

Dr. Lindley Scott of the Oriental Club, London, was another visitor who was particularly interested in the collection of oriental carpets and pictures.

MISCELLANEOUS.

Protective wooden stands were made for supporting some delicate Cameo and Venetian glass exhibits. Several articles were examined on behalf of visitors and others, and they were advised as to their condition, etc.

Gallery V continues to be closed to the public owing to the storage of the Sir Dorab Tata Collection. But it will not be for long, as we hope soon to be in occupation of the new galleries in the Museum.

The Empire Secretary of the Museums Association, London, who is compiling a directory of the Museums and Art Galleries of the World and who is visiting India shortly for the purpose of collecting data about the Museums of India, wrote asking for some details regarding the Prince of Wales Museum, its personnel, exhibits and activities.

The Art Section furnished a list replying to the queries regarding its organisation and forwarded it to the Secretary for being incorporated in the reply to be sent to the Empire Secretary.

In conclusion the Curator desires to acknowledge the good work done by his staff throughout the year under review.

PURCHASE OF EXHIBITS.

The following three pictures were purchased from the Bombay Art Society's Annual Exhibition, January :—

- (1) Awe Inspired, by M. G. Sampat.
- (2) Mahiyari, by G. M. Solegaonkar.
- (3) The Paradise of the Poor, by R. Parikh.

Besides the above, the following pictures of Indian subjects were purchased :—

- (4) Himalaya, by Mrs. Sass Brunner.
- (5) Siva and Parvati, by Miss Elizabeth Brunner.
- (6) The Message, by J. M. Ahivasi.
- (7) My father, by J. M. Ahivasi.
- (8) Sweethearts, by Y. K. Shukla.

The total cost of the pictures purchased for the Art Section was Rs. 1,976.

• PURCHASE OF BOOKS.

The following books were purchased for the Art Section Library during the year :—

1. Art and Artists—W. E. Sparkes.
2. The Pewter Collector—H. J. L. J. Masse, M.A.
3. Decorative Textiles—George Leland Hunter.
4. Catalogue of the Indian Collections, Part V—A. K. Coomarswamy.
5. Buddhist Birth Stories—T. W. Rhys David.
6. Catalogue of Persian MSS. in the British Museum, Vols. I and II.
7. Lacquer Work—G. Kolzumi.
8. Mirror of Indian Art—G. Venkatachalam.
9. Rock Cut Temples around Bombay—K. H. Vakil.
10. India—Martin Hurlimann.
11. Musalman Painting—E. Blochet.
12. Japanese Fine Art—Selichi Taki.
13. Portfolio of Indian Art—A. K. Coomarswamy.
14. Introductory Guide to the Art Section, Indian Museum, Calcutta, Percy Brown.
15. Researches on the Tenets and Doctrines of the Jeynes and Buddhists, 1827—Lt.-Colonel. Wm. Francklin.
16. Gujrati Painting in the 15th Century—Nanalal C. Mehta.
17. Oriental Metal Work, 1895—A. Von Scala.
18. Handbook of Mahommedan Decorative Arts—M. S. Dimand, Ph D.
19. A Guide to an Exhibition of Islamic Miniature Painting and Book Illumination—M. S. Dimand, Ph.D.
20. Japanese Pottery—Sir Augustus W. Franks, K.C.B., FRS
21. Persian Lustre Vases—Henry Wallis.
22. Illustrated Catalogue of an Exhibition of Antique Chinese Bronzes, Potteries, etc.
23. Jaina Painting, Part IV—A. K. Coomarswamy.

PERIODICALS.

24. "Draṣhti" by Kaniyalal H. Vakil.
25. The Museum Journal—E. W. Wignall, M.A.
26. Mouseion.
27. Dossiers De L'Office International des Musees.
28. Some Notes on Atmospheric Humidity in relation to Works of Art.

GARDEN.

Owing to a large portion of the site to the East of the Garden being taken up by the building works, materials, etc., used in construction of the New Wing, the space available for planting has been somewhat reduced. A few new beds were laid out on the shrubbery side of the garden to the north-west.

For two or three short periods during the year the supply of flowers was poor, due to various causes, such as heat, excessive rain and severe cold ; otherwise the supply was well maintained.

Two hundred earthen pots were purchased. Owing to the good demand for tub palms, four dozen wooden tubs were ordered ; these will be prepared with earth and manure in readiness for planting during the monsoon.

Several of the arches in the garden walks were renewed, while ferns were planted along some of the paths. A good deal of the time of the Malees was taken up in weeding operations.

The receipts for the year from the sale of flowers and pot plants were Rs. 1,928-9-9, as against Rs. 2,156-4-5 last year.

W. E. GLADSTONE SOLOMON,
Curator, Art Section.



Mādhava.



Vaishnavite Images.
Pāndurang
or
Vithobā.



Veṅṇu Gopāla.

REPORT OF THE ARCHÆOLOGICAL SECTION, PRINCE OF WALES MUSEUM, FOR THE YEAR 1934-35.

PERSONNEL.

The Curator was away on leave on average pay for two months from the 15th of April 1934. The Assistant Curator officiated for him during that period.

The Assistant Curator was sent out on tour to some of the States in Rajputana and Central India to study the local coinage and the history of the old mints. After touring round for about a month and a half he returned to the headquarters in the middle of February.

REARRANGEMENT.

The bringing in of Sir Dorab Tata's collection of Art Exhibits in the early part of the year necessitated some rearrangement in the galleries of this Section. Space had to be created in Gallery No. 7 by collecting all the enamelled tiles in one of the wall-cases and vacating the other one for storing some of the China-ware and other exhibits of this collection.

Due to the demolition of the Servants' Quarters in connection with the construction of the New Wing of the Museum Building, the Section lost its rooms used as Laboratory and Dark Room. The Scientific cleaning and photographic work could not, however, be allowed to suffer on that account, and hence the corner rooms of the Brahmanical and Buddhistic galleries had to be reclaimed and turned into the Scientific Laboratory and Dark Room, respectively. Antiquities removed from these rooms are temporarily exhibited elsewhere pending their proper disposal at the time of rearrangement following the completion and occupation of the New Wing.

Mr. G. E. L. Carter's Collection of stone implements was classified and rearranged with the help of Lieut. K. R. U. Todd of the Royal Indian Marine, who is a critical student of the Prehistoric Stone Implements.

NUMISMATICS.

Numismatics demanded greater attention of the staff of this Section during the year under report.

Preparation of an exhaustive Catalogue of the Coins of Sultans of Gujarat existing in this as well as other museums was expedited. It is now in the press and is expected to be out shortly. It would be the first Catalogue of its kind and the Trustees of this museum will have the privilege of publishing the same.

Exhibition and scientific arrangement of the coins of later Mughals as well as those of the East India Company having been finished in the early part of the year, the re-examination and arrangement of the Native State Coins in the Cabinet was taken up. During the remaining part of the year almost all the coins of Western Indian States, such as Baroda, Bhavnagar, Cambay, Chhota-Udaipur, Janjira, Junagadh, Jamnagar, Kutch and Lunawada, etc., were examined, classified and exhibited. Many new coins and points for consideration have, in this connection, come to light, which will be published in due course for the information of the Numismatists.

Besides this, the coins acquired by way of distribution (under the Treasure Trove Act), presentation or purchases after the exhibition was over, were all incorporated in the respective Cabinet Sections.

Turning to the examination of coins outside the museum Cabinet, it could be seen that more than 8,000 coins were submitted for examination by various collectors and dealers during the year.

In addition to this, the coins found in various parts of the Bombay Presidency (including those of some Native States) were received for examination through the Bombay Branch of the Royal Asiatic Society or the State Authorities. All these were examined and returned with reports as to the value and utility of acquisition and distribution of the finds.

Kathiawar has hitherto yielded the richest crop of Kshatrapa coins, which has not only fulfilled the needs of Indian Museums but has also adequately adorned the several cabinets of the world. Two more hoards consisting of about 1,100 Kshatrapa coins recently found were submitted for examination by the Dewan of Junagadh during the year under report. The Curator examined the coins and before both the lots were returned, a proposal was made to make them available for distribution to various Museums and cabinets of literary and research Societies on the lines of the distribution of Treasure Trove coins, after reserving a representative set for the State Museum. Mr. P. R. Cadell, I.C.S., the then Diwan, very much appreciated the proposal and has agreed to issue instructions accordingly.

As usual various lists of Treasure Trove coins available for distribution were received from the Governments of various Provinces. Selections were made out of them and such as could be spared have been received as gifts from the respective Governments. A rich lot of 783 gold coins from Punjab and another heard of about 2,000 silver coins from United Provinces offered for selection this year deserve a special mention since they form items of valuable assets to the Numismatic wealth of India.

LABELS, CATALOGUES, ETC.

Labels for the Non Muhammadan Coin Cabinets on the lines of those for other cabinets were drafted, printed and placed in position.

A card index for all the exhibited coins of Gujarat Sultans is prepared and kept in the office for ready reference. They were originally drafted in connection with the Catalogue to facilitate the serial arrangement and printing of the descriptive portion of coins in correct order.

A Catalogue of the Coins of the Gujarat Sultans as compiled by the Gallery Assistant and edited by the Curator is in the press and is nearing completion. With the publication of this work many new coins of rulers of this dynasty will be brought to light.

Typed copies of the duplicate as well as the exhibited coins of various dynasties in the Cabinet are ready for reference. Lists of duplicate coins are intended to be printed shortly and circulated to various museums and coin collectors, with a view to exchange or sell the coins for filling up gaps in the Museum Cabinet.

EDUCATION AND RESEARCH.

Decipherment and translation of Persian, Urdu and Arabic inscriptions on the armoury of the Art Section continued from the last year, was completed during the early part of the year under report.

Three more Sanads and two Deeds from the Nawabs of Awadh that were offered for sale to the Art Section were examined and returned with the report as desired.

Three electrotype Seals of Sir Walter Raleigh's original ones sent by Sir Phiroze Sethna were read and returned with historical observation. They were later kindly presented by him to this Section.

The Curator delivered a lantern lecture under the auspices of Gujarati Jnana Prasarak Mandal on "The Ancient Coinage of India", with a view to popularize the study of ancient Indian Numismatics.

The Assistant Curator studied "The Coinage of the Nizams of Hyderabad" and read a paper on the subject before the last Conference of the Numismatic Society of India held at Allahabad. He also drafted an article on the Arabic inscription from the Jami Masjid, Dabhol.

The Assistant Curator also delivered a lantern lecture on "The Coins of Gujarat" under the auspices of Forbes Gujarati Sahitya Sabha, being the first of the series of Buddhi Vardhak Vyakhyanamala.

PHOTOGRAPHY.

Photographic work of the Section has been considerably extended. Such of the copper-plates, images, stone slabs and other antiquities as were required for study or illustration in connection with the scientific work of the Section staff were photographed by the Gallery Assistant.

SCIENTIFIC TREATMENT OF EXHIBITS.

Constant attention has to be paid to the antiquities exhibited in the galleries which require cleaning or preservative treatment from time to time. The Chemical Assistant looked after this work. In addition to this, he cleaned a large number of Treasure Trove Coins and others received for examination and report and he also scientifically treated the Susan Antiquities some of which were on the verge of crumbling when brought from K. R. Cama Oriental Institute. Now they are made safe with the preservative coating.

MISCELLANEOUS.

As usual the Annual Report for the previous and Budget Estimates for the current years were framed and submitted to the Trustees for approval and sanction. Similarly the Audit Notes and Objections were also replied to and explained.

It is unfortunate to record that a minor theft was committed in the Buddhistic Gallery of this Section when bits of gold leaves, beads and copper coins among the antiquities from the Stupa at Mirpurkhas (Sind) were removed. The culprit was, however, traced and the coins recovered but the gold leaves and beads that were already melted down and disposed off could not be recovered. Additional precautions have been taken in the interest of the greater safety of exhibits.

Replicas of gold, silver and crystal reliquaries, which held the sacred relics of Lord Buddha from Mirpurkhas, were prepared and sent to the Director General of Archaeology as desired by him for presentation to the Mahabodhi Society.

ACQUISITIONS.

Foreign Antiquities :—

Pottery, shell bangles and other minor antiquities from Susa, which were presented to or purchased by the Managing Body of the K. R. Cama Oriental Institute and were lying in the said Institution since long, were at the request of the museum authorities, lent under certain conditions to the Trustees of this Museum for exhibition in the Galleries of the Archaeological Section.

ICONS.

Iconographical side of the section was enriched to a considerable extent during the year under report. The acquisition includes no less than sixty icons of Vaishnavite, S'aivite and Sakta schools together with a large number of articles of worship for the Brahmanical Gallery. A few more including the four inscribed Images of different Tirthankars recording the names of the donors and the dates of their presentation or installation etc., were acquired for the Jain Gallery. Some of these were purchased from the Exhibit Fund of the Museum, while others were presented to the



Sākta Goddess.



Shavite Images.
Ganapati.



Annapurṇā.
[To face page 21]

section. Names of such donors with the details of their presentations are recorded in Appendix A (i) to this Report while the descriptions of the others are to be found in section (ii) of the same Appendix.

INSCRIPTIONS.

A stone slab bearing a Persian inscription from the fort of Anjanvel was received as a gift from the Bombay Government through the Sub-Division Officer, Public Works Department, Chiplun (District Ratnagiri).

Negotiations for the acquisition of two important sets of Kadamba copper-plates are well-nigh complete. The documents are expected to be with us early in the next financial year.

COINS.

The Coin Cabinet of the Museum was further enriched during the year by the addition of 64 gold, 141 silver and 221 copper coins.

The find of a big hoard of 783 gold coins from Kasur in the District of Lahore was responsible for the unusual acquisition of as many as 39 gold coins at a time for our Cabinet from the Punjab Government. 71 silver and 22 copper coins were also received as gifts from various provincial Governments.

Besides these, 25 gold, 70 silver and 199 copper coins were purchased from time to time from the Exhibit Fund, as they were offered for sale.

An exhaustive and classified list of coins acquired during the year is appended as Appendix B to this Report.

Arrangements are nearly completed for the acquisition of a splendid Collection of the Malwa coins from Mr. G. J. M. Hamilton of Allahabad. The addition of the above lot to those already in our cabinet will, it is hoped, make our collection of Malwa coins sufficiently rich.

BOOKS.

More than a hundred and fifty publications including a number of rare old books, fresh issues of Epigraphical, Numismatic and Historical periodicals and other works of scholars containing the results of their researches in various branches of Archæology were added during the year to the library of the section. Some of them are exceedingly useful as works of reference.

Readers would have a vivid idea of the wide range of subjects covered by these books by referring to the Appendix C.

BLOCKS, SLIDES AND NEGATIVES, ETC.

In connection with the publications of the Museum, blocks of newly acquired exhibits were prepared. Similarly photographs of some of the antiquities were taken and slides prepared for illustrating the results of

researches or studies by the members of the staff, with a view to making the publications or lantern lectures interesting.

Lists of such blocks, negatives and slides as are added to the stock of the section are given at the end as Appendices D, E and F respectively.

GRATITUDE AND APPRECIATION.

Before we close, it is necessary to express our indebtedness to those generous minded gentlemen and scholars or institutions who have helped the Section either by their co-operation in the working of the Section or by presenting their publications or collections of antiquities. We are grateful to the Managing Body of the K. R. Cama Oriental Institute for lending us their Collection of Antiquities from Susa for exhibition in the Galleries of this Section. Authorities of various provincial Governments also deserve our best thanks for enriching our Cabinet by the presentation of such of the Treasure Trove coins as were available.

STAFF.

I take this opportunity of placing on record my warm appreciation of the work done by the Section staff during the year. Their willing co-operation and sincerity go a great way in the smooth sailing and efficient working of the Section.

G. V. ACHARYA,
Curator, Archæological Section.

APPENDIX A.

List of Antiquities acquired during the year.

(i) Presented.

1. *Epigraphs*—

1. A Persian inscription slab from the fort at Anjanwel, Chiplun presented by the Collector of Ratnagiri.

2. *Images and Worshipping materials*—(i) *Brahmanical*—

1. Mahishasurmardini.
2. Mahishasurmardini with two attendants.
3. Bal Krishna.
4. Ajasura.

All these are presented by Mr. Burjor B. Ichaporia, M.A., LL.B.

3. *Miscellaneous*—

1. A dancing girl.
2. A Maratha figure.
3. An elephant rider.
4. A small standing figure.
5. A figure with hook at the bottom

All these are presented by Mr. Burjor B. Ichaporia, M.A., LL.B. Three electrotype Seals of Sir Walter Raleigh, Learning No. 199, presented by Sir Phiroze Sethna.

Twenty Photographs of the Mural paintings at the Rangmahal palace at Chander, Nasik District. presented by Bombay Government.

(ii) Purchased.

1. *Images and Worshipping materials*—(i) *Brahmanical*—

- 1-2. Mahishasurmardini.
- 3-7. Ganpati.
8. Diplaxmi with a bowl in right hand.
9. Shiva-linga in human form with snake, umbrella and bull in front.
- 10-11. Shakta goddess.
12. Bhairava.
- 13-14. Hanuman.
15. An Image of seated Goddess with 8 arms
- 16-18. Balkrishna.
19. Kalidaman Krishna.
20. Bhairava with decapitated head
21. Narsimha and Laxmi.
22. Annapurna goddess.
23. A seated figure probably of Annapurna.
24. Shakta Image of Goddess
- 25-27. A standing side goddess (2 of Prithvi and 1 of Laxmi).
28. Virabhadra on a plate
29. Virabhadra on a plate mounted on wood.
30. A head of Kirtimukha.
31. Kirtimukha Mask.
32. Garuda with hands folded.
33. Peacock with a ring at the top of tail and hole in front.
34. A lady on an instrument.
35. A begging mendicant.
36. A small elephant.
37. Elephant as part of the pedestal
38. A stand for Vaishnavite Image with Garuda in front.
39. A bullock.
40. An Arti.
- 41-42. Achamanis.
43. A betlenut cutter.

(ii) *Jain*—

1. An inscribed brass image inlaid with silver and copper of the Jain Tirthankara Shreyansa presented for worship on 3rd day of the bright fortnight of Vaishakha Samvat 1509 V. E. = 1458 A.D.

2. An inscribed brass image inlaid with silver of the Jain Tirthankara Vimalanath presented for worship on the 8th day of the bright fortnight of Vaishakha Samvat 1686 V E = 1630 A.D.
3. An image of Yugādhideva dated V.S. 1384.
4. An image of Parshwanath dated V.S. 1458
5. A marble image sitting on Makara.
6. A bronze image of a light bearer standing on a tortoise pedestal.

(iii) *Miscellaneous—*

- 1-5. Seals of Musalman period.
6. Baked clay seal belonging to the Mitra dynasty of the Mauryan period.
7. Baked clay mould with signs of Punch-marked coins.

APPENDIX B.

List of Coins acquired during the year.

Name of Dynasty.	Presented.			Purchased.		
	Gold.	Silver.	Copper, Billon, etc.	Gold.	Silver.	Copper, Billon, etc.
1 Early and Punch-marked	.	.	.	..	4	1
2 Kshatrapas and Andhras	.	..	..	..	2	5
3 Kushans .. ..	.. ..	..	..	7	..	16
4 Guptas .. ..	.. ..		..	8	..	..
5 Early Indo-Foreign ..	..	2	1	..	..	8
6 Sultans of D. lhr ..	..	1	17	1	1	1
7 Jaunpur .. ..	.	.	1	.	..	1
8 Malwa .. ..	..	.		1	..	..
9 Gujrat .. ..	.		.	.	..	8
10 Mughal and Post-Mughal ¹	39	..	2	6	..	21
11 South Indian .. ..	.	.		1	.	..
12 Indo-European .. ..	..	.	..		2	29
13 East India Co. .. ..	.		.	.	1	2
14 Native States .. ..	..	..			1	81
15 Miscellaneous .. ..	.	2	.	1	.	12
16 Foreign .. ..	..	..	.	.	.	14
	39	71	22	25	70	199
	132			294		
Grand Total ..	426					

APPENDIX C.

List of Books acquired during the year.*(i) Presented.*

- 1-2. Annual Reports on the Working of the Curzon Museum of Archaeology, Muttra, for the years ending 31st March 1933 and 1934.
3. Archaeological Survey of India. New Imperial Series. Vol. XLIII, Part III, "The Bakhshali Manuscript"—A Study in Mediæval Mathematics, by G. R. Kaye.
4. Report on the Working of the Peshawar Museum for the year 1932-33.
5. Reprint from the Proceedings of the Prehistoric Society of East Angia, for 1932, Vol. VII, Part I, by Lieut. K. R. U. Todd, R.I.M.
6. Administration Report of the Archaeological Department, Cochin State, for the year 1108 M.E. (1932-33).
7. Annual Report of the Watson Museum of Antiquities, Rajkot, for the year 1933-34.
8. Annual Report on the Working of the United Provinces, Provincial Museum, Lucknow, for the year ending 31st March 1934.
- 9-10. Annual Reports on the Working of the Raiputana Museum, Ajmer, for the years ending 31st March 1932 and 1933.
- 11-12. Reports on the Administration of the Archaeological Department and the Sumer Public Library, Government of Jodhpur, for the years ending 30th September 1933 and 1934, Vols. VII and VIII.
13. Annual Report of the Bombay Branch of the Royal Asiatic Society for 1933.
14. Annual Report of the Central Museum, Lahore, 1933-34.
- 15-16. Annual Reports of the Bhandarkar Oriental Research Institute, Poona, for the years 1932-33 and 1933-34.
17. Proceedings of the Twenty-first Indian Science Congress, Bombay, 1934.
18. Guide to the Buddhist Ruins of Sarnath with seven plates by Rai Bahadur Daya Ram Sahni, M.A.
19. Bulletin No. 2 of the Nagpur Museum—"The Rock Paintings of Hoshangabad", by E. A. Abreu, F.Z.S.
- 20-23. Epigraphia Indica Vol. XXI, Parts III to V, by K. N. Dikshit, M.A., and Vol. XXI, Part VI, by Hiranand Sastri, M.A., M.O.L., D.Litt.
24. Documents Sedarabiques, En Autocopie—Avec 9 Planches Au Trait Et 6 Planches En Phototypie, by Marcel Cohen.
25. A Guide to Elephanta by Hiranand Sastri.
26. A Guide to the Archaeological Museum, at Gwalior.
27. Archaeology in Gwalior, by M. B. Garde, B.A.
28. Shree Bhagvat Singh—The Maker of Modern Gondal, by St. Nihal Singh.
29. Bhagvat Gaurav Suvarna Grantha in Gujarati.
30. Three South Indian Metal Images—A Study, by T. B. Nayar, M.A.
- 31-32. Journals of the University of Bombay, Vol. II, Part IV, and Vol. III, Part I.
33. The Journal of the Karnatak Research Society, Dharwar, in Kanarese.
34. Bombay Branch Royal Asiatic Society, Journal. (New Series), Vol. X, Nos. 1 and 2.
35. Act No. X of 1910 relating to the Indian Museums.
- 36-40. The Brooklyn Museum Quarterly, Vol. XX, No. 4 and Vol. XXI, Nos. 1 to 4, with Index for Vol. XX.
41. Bulletin of the Madras Government Museum, Tiruparuttikunram and its Temples, N. S. Vol. I, Part 3, by T. N. Ramchandran, M.A.
42. Bulletin of the Madras Government Museum—The Three Main Styles of Temple Architecture recognised by the Silpa-Sastras, by F. H. Gravely, D.Sc., and T. N. Ramchandran, M.A.
- 43-44. Memoirs of the Archaeological Survey of India, No. 46 on the Iconography of the Buddha's Nativity, by A. Foucher, and No. 48 Explorations in Sind, by N. G. Majumdar, M.A.

45. Proceedings of the Annual Meeting of the Numismatic Society of India for 1933.
46. Numismatic Supplement No. 45.
47. Catalogue of Coins in the Punjab Museum, Lahore, Vol. III, "Coins of Nadir Shah and the Durrani Dynasty", by R. B. Whitehead.
48. Numismatic Notes and Monographs, No. 61,— "The Gampola Larin hoard", by Howl and Wood.

(ii) *Purchased.*

1. Annual Bibliography of Indian Archaeology for the year 1932, Vol. VII.
- 2-3. Ur Excavations, Vol. II, "The Royal Cemetery"—Text and Plates by C. L. Woolley.
4. Bihar and Orissa District Gazetteer, "Patna", by L. S. S. O'Malley, I.C.S.
5. District Gazetteer of the United Provinces, Vol. XVII, "Shahjahanpur", by H. R. Nevil.
6. The Script of Harappa and Mohenjodaro and its connection with other scripts, by G. R. Hunter.
7. Bombay Gazetteer, Vol. I, Part I, "History of Gujarat".
8. Epigraphia Indica, Vol. XXI, Part VI, by Hirānand Sastri, M.A., M.O.L., D.Litt.
- 9-14. The British Museum Quarterly, Vol. VIII, Nos. 2 to 4, and Vol. IX, Nos. 1 to 3.
- 15-16. Memoirs of Jehangir Tazuk-i-Jahangiri, Vols. XIX and XXII, by Rogers and Beveridge.
- 17-18. The Portuguese in India, Vols. I and II, by F. C. Danvers.
- 19-21. Letters of Queen Victoria, 1837-1861, Vols. I, II and III, by A. C. Benson and Viscount Esher.
22. The History of England,—From the Revolution in 1688 to the Death of Charles II, Vol. II, by T. Smollett, M.D.
23. The First Prayer Book of King Edward VI, 1549.
24. An Historical Disquisition of Ancient India, by William Robertson, D. D.
25. History of the Rashtrakutas (Rathodas), by Pandit Bishweshwar Nath Reu.
26. The Commercial Policy of the Moguls, by D. Pant, B.Com., Ph.D.
27. The Cambridge Shorter History of India, by H. H. Dodwell.
28. A Peep into the Early History of India, By Sir R. G. Bhandarkar, M.A., Ph.D., K.C.I.E., etc.
29. Soldiering in India, 1764-1787, by W. C. Macpherson.
30. Outline History of the World, by Sir J. A. Hammerton.
- 31-35. Antiquity, Vol. VIII, Nos. 29 to 32 and Vol. IX, No. 33, by O. G. S. Crawford, F.S.A.
- 36-38. The Antique Review, Vol. IV. Nos. 2, 3 and 4, by B. B. Roy Vedanta and B. K. Dutta.
- 39-40. The Journal of the Greater India Society, Vol. I, Nos. 1 and 2, by U. N. Ghoshal.
- 41-43. Islamic Culture, Vol. VIII, Nos. 2 to 4, by Marmaduke Pickthall.
- 44-45. The Indian Art and Letters, Vol. VII, No. 2 and Vol. VIII, No. 1.
- 46-49. The Indian Historical Quarterly, Vol. X, Nos. 1 to 4, by Narendra Nath Law.
- 50-52. Journal of Indian History, XIII, Parts 1 to 3, by R. B. S. Krishnaswami Aiyangar, M.A., Ph.D., etc.
53. "Iraq", Vol. I, Part I, published by the British School of Archaeology in Iraq
- 54-56. Indian Culture, Vol. I, Nos. 1 to 3.
57. Annals of the Bhandarkar Oriental Research Institute, Poona, Vol. XV, 1933-34, Parts III-IV.
- 58-93. "Wonders of the Past", Parts 17-52, by Sir J. A. Hammerton.
- 94-104. Numismatic Circular, XLII, Parts 4 to 7, 8-9, 10 to 12. and Vol. XLIII, Parts 1 to 3, by Messrs. Spink & Son, Ltd.

APPENDIX D.

List of Blocks prepared during the year .

Serial No.

87. A Jain brass Image of Vimalnatha dated 1686.
 88. A wooden painted Burmese Image.

APPENDIX E.

List of Negatives prepared during the year.

Serial No.

Size.

- | | | |
|-----------|---|---------|
| 223-223a. | Front and back of a brass Jain Image of Shreyansa dated V.S. 1525 | . Half. |
| 224-224a. | Front and back of a brass Jain Image of Shreyansa dated V.S. 1509 | . .. |
| 225-225a. | Front and back of a brass Jain Image of Vimalanatha dated V.S. 1686 | .. .. |
| 226-229. | Four plates of a Rashtrakuta Grant .. .. . | .. .. |
| 230. | Three baked clay Seals | .. . |

APPENDIX F.

List of Slides prepared during the year which illustrate.

Serial No.

- 126-134. Early Indian and Gujarat Coins.

REPORT OF THE NATURAL HISTORY SECTION FOR THE YEAR ENDING 31st MARCH 1935.

Sub-Committee in charge of the Section.

The Sub-Committee of the Trustees who administered the affairs of the Section during the period under review comprised Mr. J. G. Ridland, elected Chairman during the absence of Mr. P. M. D. Sanderson from 1st of April to the 27th December 1934, Dr. N. A. F. Moos and Mr. S. H. Prater. On his return Mr. Sanderson resumed the Chairmanship of the Sub-Committee of the Natural History Section from 28th December 1934 to end of the current year.

Finance.

The funds for the maintenance of the Section for the year were provided from (1) a grant of Rs. 28,950 received from the Government of Bombay ; (2) in accordance with the terms of agreement between the Bombay Natural History Society and the Trustees of the Prince of Wales Museum, a grant of Rs. 11,520 was made by the Society being half the cost of the salaries of the Curator and two Assistant Curators.

The emergency cut of 5 per cent. on the grant to the Natural History Section referred to in the last Annual Report continued to operate during the period under review.

Expeditions and Explorations.

Vernay Scientific Survey of the Eastern Ghats.—Further Scientific Results of the Survey carried out by the members of the Museum staff were published during the year. Parts VII, VIII and IX dealing with the Bird collections obtained by the Survey appeared in the *Journal* of the Bombay Natural History Society. The authors, Messrs. H. Whistler and N. B. Kinnear of the British Museum, deal *de novo* with the distribution and status of many species. The papers published deal with the Pipits, Larks, Flower-Peckers, Wood-Peckers, Barbets and Cuckoos. The thanks of the Museum are due both to Mr. Whistler and Mr. Kinnear, joint authors of the Report. It forms one of the most important contributions to Indian Ornithology made in recent years. It provides considerable amendments to and revisions of the distribution, status of species ascertained through the Survey subsequent to the publication of the *New Fauna*. The Museum collection has benefited considerably by the Survey. 307 specimens, being part of the Survey material, were added so far to the collections. Further material will be available as the collections are worked out.



Part of the Forest Group.

A corner of one of the panoramic groups illustrating Animal and Plant life in a
South Indian Hill Forest.

Survey of Hyderabad State.—The two concluding parts on the report of the collections obtained by Mr. Salim A. Ali, assisted by Mr. E. Henricks, assistant in the Bird Department, were published in the *Journal* of the Bombay Natural History Society, by Mr. Ali during the period under review. This Survey was confined to the Eastern portions of the State. The original plan was to include the Northern and Western Districts but this was unfortunately given up for want of funds. We hope that H. E. H. the Nizam's Government will make it possible for Mr. Ali in the near future to complete the Survey, which he has carried out so far with his usual efficiency and thoroughness.

Survey of Travancore State.—The material obtained by Mr. Salim A. Ali, assisted by Mr. E. Henricks during a survey in this State is being worked out by Mr. H. Whistler and Mr. N. B. Kinnear of the British Museum. The first part of the Report of this Survey will be published in Volume XXXVII. No. 4 of the *Journal* of the Society.

Survey of Cochin State.—The collections made by Mr. Salim A. Ali, assisted by Mr. E. Henricks, are being worked out by Mr. H. Whistler. A preliminary report of the work accomplished was published in the *Journal* of the Bombay Natural History Society during the period under review.

Survey of Jodhpur State.—The material obtained by Mr. V. S. La-Peronne, assisted by Mr. E. Henricks during a survey of this State, is being worked out by Messrs. H. Whistler and N. B. Kinnear. The results of the survey will be published in the *Journal* of the Bombay Natural History Society when available.

The Vernay-Hopwood Chindwin Expedition.—Mr. A. S. Vernay, a Vice-Patron of the Bombay Natural History Society, undertook an extensive expedition to the Upper Reaches of the Chindwin River in Northern Burma, with a view to collecting Mammals, Birds, Reptiles, Amphibians and Fish. The services of Mr. C. McCann, Assistant Curator, and Mr. A. Fernandes, assistant in the Mammal Department, were loaned to Mr. Vernay for the period of three months. No collecting had ever been done in the greater part of the area visited by the expedition. Mr. G. C. Shortridge, one of the collectors of the Mammal Survey conducted by the Bombay Natural History Society, made a collection of mammals along the banks of the Chindwin River as far north as Singkaling Hkamti in 1914. A report of this collection appeared in the Society's *Journal* Volume XXIV page 291. The present expedition started from Nanyascik and worked its way in a northwesterly direction, finally turning north till it reached Dalu (or Taro). The most northerly point reached was the Partup Gorge, some 30 miles above Dalu. From Dalu the expedition travelled in a southerly direction, collecting along both banks

of the Chindwin as far as Monywa, from which point it returned to Rangoon. A large collection was made which will be worked out in the American Museum of Natural History, New York. Such duplicate material as is available will be presented in course of time to the Museum.

Assistance to Public Departments, Museums etc.—As usual the various departments of the Natural History Section assisted public bodies and private individuals by way of identification of various animals, birds, reptiles, insects, etc.

Protection of Wild life.—An interesting development of the whole question was the recent Inter Provincial Conference convened by the Government of India at Delhi in January 1935. The Curator Mr. S. H. Prater was deputed to attend the Conference as the unofficial representative of the Government of Bombay and the official representative of the Bombay Natural History Society.

The conference was instrumental in making a number of detailed recommendations for the better protection of wild animals both inside and outside forest areas. If these recommendations are accepted and put into force by the various Provincial Governments, much will have been accomplished to improve the deplorable conditions which exist in many parts of the country. But while the Conference made numerous recommendations of detail many important points remain unsettled. Among these is the need of sanctuaries wherever necessary for giving permanent shelter to wild life. Equally important is the question of providing, a Game Warden and staff within the Forest Department for administering the laws of protection to wild animals. To fix the responsibility on an already overworked and under staffed department without providing it with adequate means to enforce these laws will not improve the position. The same holds good regarding the protection of animal life outside forest areas, where their destruction is now greatest. Mere legislation without the means to enforce it, is quite useless in preventing the destruction of wild life both in and out of season outside forest areas.

Imperial Council of Agricultural Research.—A monograph on the grasses of the Bombay Presidency was written by Revd. Father Blatter and Mr. C. McCann, Assistant Curator of the Museum which is being published by the Imperial Council of Agricultural Research.

Mammal Gallery.

In view of the impending transfer of the collections to the New Wing of the Museum now under construction, all major work in this Department was postponed. The transfer will unfortunately imply the breaking

down of the plaster backgrounds of the large group cases ; it will be possible however to use the ground work and accessories in the new groups which are to be built.

A scale model of the new Mammal Gallery was constructed in which miniature cases were built to give a definite idea as to their arrangement in the future gallery. Experiments were also carried out in the model to provide a pleasing and harmonious colour scheme for the show cases and walls. Much time and labour was given to planning the detailed arrangement of the cases and the exhibits.

The Assistant of this Gallery was principally engaged in attending to the reference collection. Numerous flat skins in the collection were made up into cabinet specimens.

Among the notable acquisitions during the year were the bones of a large Baleen Whale which was washed up at Colaba during the month of May. Our thanks are due to the Bombay Municipality for the assistance they rendered in obtaining the specimen.

Bird Gallery.

In preparation for the transfer of the exhibits to the New Wing the alteration and remodelling of the existing cases was taken in hand early during the year. This was made possible owing to the nature of the exhibits which are mostly small. The existing show cases were cut down to suit their proposed arrangement in the future gallery. The frame work and the backgrounds of the cases were suitably painted so as to show the specimens off to better advantage. A new system of arrangement has been adopted and also a new method of labelling the exhibits. In place of the printed paper labels which had to be constantly renewed due to discolouration of the paper, the method of printing on cellophane backed with glass was adopted. Apart from the better legibility and cleanness of the labels, such labels enhance the beauty of the case, as they are less obtrusive. Some of the completed cases are now on exhibition in the Gallery. In many instances old and badly mounted specimens have been replaced by new ones and many of the gaps which occurred before owing to lack of space have been filled in.

The wall cases containing the classified series of birds are alternated with small groups illustrating the nesting habits etc. of species seen in the adjoining cases. The arrangement adds greatly to the interest of the exhibits. The whole plan and lay out of the gallery when completed will be very pleasing and attractive. The north end of the Gallery will contain three large groups with curved backgrounds.

Efforts are being made to obtain material illustrating the nesting of Flamingoes in the Runn of Cutch which will form the subject of the central

group. Among the birds mounted during the year are, a specimen of the Spot-Bill Duck (*Anas poecilerbyncha*), a Grey Lag Goose (*Anser anser*) and a nesting group of Brown Wood-Pecker (*Micropternus brachyurus*). These birds usually select the globular nest of a vicious black tree ant as a nesting site and provide one of the most remarkable instances of animal partnership in Nature.

Among the more important acquisition during the year was a further contribution of 21 specimens of birds from the material collected by the Survey of the Eastern Ghats; two specimens of the Mandarin Duck (*Aix galericulata*) presented by Mr. C. Gimson from the Manipur State; and a specimen of the Long-tailed Duck (*Clangula hyemalis*) by A. E. L. Dredge from Chaman, Baluchistan. This is the first recorded occurrence of this species within Indian limits.

Reptile and Fish Gallery.

Further lizards from the reference collections were sent to Dr. Malcolm Smith of the British Museum. He is at present engaged on the revision of Boulenger's Volume on Reptiles in the Fauna of British India series. The first and second Volumes have already appeared.

The cataloguing and rearrangement of the reference collection of lizards was completed.

The cast of the Leather-backed Turtle (*Dermochelys coriacea*) was completed during the year and placed on exhibition.

Thanks to the continued generosity of Mr. F. V. Evans, we were able to continue the preparation of casts of Marine Fishes of the West Coast. 24 further casts were completed and will be exhibited when new cases are available.

Like the Bird Gallery, the Reptile and Fish Gallery is undergoing re-modelling to adapt the present show cases and exhibits to the future gallery in the New Wing. The gallery in the new wing allows for a better arrangement and expansion of the exhibits compared with the cramped condition of this gallery at present.

Accommodation has been provided for three large group cases illustrating Fish and Reptilian life. Plans for the arrangement of the exhibits in this gallery are in hand.

Insect and Invertebrate Gallery.

Lack of accommodation in this gallery prevented further expansion. Work was mainly concentrated on the preservation and arrangement of the large collections of insects and on the rearrangement and renewal of the existing cases.



The checkered water-snake (*Tropidonotus piscator*).

A common snake throughout India, living in tanks, ponds and rivers.

It is frequently met with in flooded rice fields during the rains.

It is harmless to Man.

[To face page 32]

The present method of exhibiting the specimens of insects on cork sheets has proved unsatisfactory owing to climatic conditions, hence it has been decided to adopt a new method replacing the cork sheets with Vitrolite. The labels, as in the other galleries were a constant source of trouble owing to their discolouration. It has now been decided to adopt the cellophane labels for this gallery too.

In view of the removal of the exhibits in this gallery to the future gallery in the New Wing, plans are in hand and Mr. C. McCann has been deputed to study the Invertebrate Gallery in the Indian Museum on his way through Calcutta from Burma.

Numerous specimens were received by us for identification, particularly those of economic importance. In this way assistance was rendered to those seeking it.

Among the more important contributions to the Insect collection was a collection of several hundred insects collected during the monsoon of this year by Mr. C. McCann from Salsette. This collection is of particular interest as it shows the progress of insect life during the four months of the rains.

Mr. T. R. Bell of Karwar presented nine store boxes full of moths, beetles, wasps etc. and also a specimen of a Hawk Moth and a nest of *Ichneugaster exima* with 12 wasps of which one is a male.

Publications by the Staff.

Mr. S. H. Prater, the Curator of the Museum, published Part II of the serial entitled "Wild Animals of the Indian Empire and the Problem of their Protection" in the journal of the Bombay Natural History Society. The part deals with the Deer and Antelope. The purpose of these articles is to provide a well illustrated popular handbook of the animals of the Indian Empire with a view to educating public opinion and creating a wider interest in the preservation of wild life. To give wider publicity to the question, the articles are being issued separately in pamphlet form. A large number of copies have been distributed to various agencies and individuals and the publication has received wide attention both in the English and Vernacular papers.

Mr. C. McCann, the Assistant Curator, published an interesting note on the habits of the Flying Fox. The ground under the fruit trees where these bats have fed over night is generally covered with wholly or partially chewed fruit. These were wrongly been taken to be their droppings. From careful observation and examination of the stomach contents of the specimen, the author was led to the conclusion that these bats live exclusively on the nectar, fruit juices and such fruits as liquify easily in the mouth. No solids pass into the stomach of the bat. Here then is

the basis of the legendary belief prevalent in many parts that the flying fox has no anus but passes its excreta from the mouth.

In collaboration with the late Rev. Fr. E. Blatter, Mr. McCann published three parts dealing with the *Cyperaceae* of the Bombay Presidency in the Journal of the Bombay Natural History Society. These papers are of systematic and taxonomic importance.

Mr. McCann also contributed another Botanical paper to the pages of the Journal of the Bombay Natural History Society entitled "Observations on *Ceratophyllum dumersum* L. In this paper the author dealt with the status of the Indian species of *Ceratophyllum* and has added numerous field observations.

S. H. PRATER,

Curator of the Natural History Section.

LIST OF PUBLICATIONS ON SALE AT THE MUSEUM.

				Rs.	a.	p.	
1.	The Western Pictures and Modern Indian Pictures	0	6	0			each.
2.	Guide to the Art Section	0	12	0			„
3.	Guide to the Arabic and Persian Inscriptions in the Epigraphical Gallery	0	6	0			„
4.	Guide to the Buddhistic Section	0	6	0			„
5.	Guide to the Brahmanical Gallery	0	9	0			„
6.	Guide to the Brahmanical Gallery (in Gujarati and in Marathi)	0	4	0			„
7.	Guide to the Gallery of Miscellaneous Antiquities	0	8	0			„
8.	Guide to the Natural History Section	1	0	0			„
9.	The Snakes of Bombay Island and Salsette	1	0	0			„
10.	Snake Chart	1	0	0			„
11.	The Women of the Ajanta Caves	1	0	0			„
12.	The Art of Elephanta	1	8	0			„
13.	Essays on Mogul Art	10	0	0			„
14.	Game Fishes of Bombay	2	0	0			„
15.	Indian Coloured Pictures	0	8	0			„
16.	Prachin Lipipatraka (English)	0	4	0			„
17.	Prachin Lipipatraka (Gujarati)	0	4	0			„
18.	Halaman Jethava's Duha	0	6	0			„

Picture post cards of the various exhibits in the Museum are also on sale at one anna each.





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